YMGI Group LLC

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Literature Part No: Lit-CMUV-II-0301-20110210
For TTWC K and L Styles-0 and 3Series, 18 to 60K Btu/h Cooling and Heat Pump
This Manual is Subject to Change to Reflect Our Continuous Effort for Engineering Improvement without Prior Notice.

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YMGI , A Comfort Maker, A Joy Companion, A Satisfaction Guarantor...

INSTALLATION INSTRUCTION AND OPERATION MANUAL

DC INVERTER R410A-SERIES M6

Any Match 16SEER 1 to 2, 3, 4...

Indoor Unit-Ceiling/Floor Mount (59)

⚠ WARNING

This product is designed and manufactured free from defects in material and workmanship under the normal use and maintenance. Installation, operation, maintenance and service shall follow professional practices for regular cooling and heating equipment, NEC, State, City or Local Codes and related manuals from us. Otherwise, damage to equipment or property even injury to people may occur.
Installer: Read this manual before installation. Remember to sign on warranty card.
User: Keep this manual for future maintenance and service use.
Servicer: Use this manual for service reference.

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⚠ CAUTION **All Units Shall Be Installed by Experienced or Licensed Contractor Or Technician. Read Manuals before Installation.**

⚠ CAUTION **Following NEC, State and Local Codes and Installation Instructions of All Units, Otherwise Unit Warranty Will Be Void and Serious Damage To People Or Property May Be Caused.**

⚠ WARNING **YMGI Group Shall NOT Take Any Responsibilities for Any Damage or Loss Due to Do-It-Yourself(DIY) self-installation and other Improper Installation or Operation or Natural Disaster.**

⚠ WARNING **Don't Supply Power until All Wiring and Tubing and Checking is Completed. Ground the Unit Following Instructions and NEC, State and Local Codes.**

⚠ DANGER **Connect All Wiring Securely. Loose Wire or Other Bad Contact May Cause Arc or Overheating and Fire Hazard.**

End User Technician Contact of Technical Support-Manufacturer
Toll Free Number: 1-866-833-3138 x 703
Email: techsp@ymgigroup.com

(End user needs to contact installation or service technician to check the unit, before the technicians contact manufacturer technical support-straight technical communication)

TO END USERS- MUST READ PRIOR TO HIRING A CONTRACTOR TO INSTALL

1. GOOD UNITS CAN MALFUNCTION, MAY NOT WORK CORRECTLY OR PROPERLY, AS DESIGNED AND MANUFACTURED, IF NOT INSTALLED CORRECTLY OR PROPERLY. MUST DO IT RIGHT ALL THE TIME, ESPECIALLY FROM THE VERY BEGINNING.
2. CUSTOMER DO-IT-YOURSELF (**DIY**) INSTALLATION CAUSED AND/OR MAY CAUSE TROUBLE, IN DIFFERENT FORMATS, TO THE UNIT, YOUR COMFORT EXPECTATION, YOUR HEALTH.
3. HANDY MAN OR SMART PEOPLE OR EVEN SOME PROFESSIONALS MAY MAKE MISTAKES SOMEWHERE OR SOMETIMES. DON'T TRY TO SAVE MONEY BY **DIY**. HAND OVER THE INSTALLATION TO THE CURRENTLY LICENSED PROFESSIONALS, SINCE THEY WILL TAKE CARE OF YOUR UNITS AND YOUR COMFORT.
4. DIY INSTALLATION MAY SAVE YOU SOME MONEY UP FRONT, BUT WILL COST YOU MORE AND BRING HEADACHE, DOWN THE ROAD.
5. YMGI DOESN'T AGREE, DOESN'T ALLOW, DOESN'T WARRANT, DOESN'T ENSURE, DOESN'T ENCOURAGE, DOESN'T RECOMMEND DIY INSTALLATION, UNLESS YMGI STATES DIY INSTALLATION IS ALLOWED, IN WRITING.
6. CUSTOMERS WILL LOSE FACTORY WARRANTY ON **DIY** INSTALLED HVAC PRODUCTS AND TAKE THEIR RISKS FOR DIY INSTALLATION.
7. DON'T PAY THE CONTRACTOR IN FULL, UNTIL ALL FUNCTIONS OF THE SYSTEM HAVE BEEN CHECKED AND YOU ARE SATISFIED.
8. IT IS THE INSTALLATION CONTRACTOR'S RESPONSIBILITY TO INSTALL AND SERVICE THE SYSTEM TO MAKE SURE THE UNIT WORKS CORRECTLY AND PROPERLY OVER TIME. YMGI DOESN'T INSTALL NOR SERVICE YOUR UNITS ON BEHALF OF THE INSTALLER. YMGI WILL HELP THE INSTALLER OR SERVICE PROVIDER BY ANSWERING QUESTIONS AND PROVIDING TECHNICAL SUPPORT.
9. IT IS THE CUSTOMER'S RESPONSIBILITY TO SELECT THE UNIT CORRECTLY (UNIT SIZE, SEER, ELECTRIC POWER, CONTROL, REFRIGERANT, DC OR FIXED SPEED, LOOKING AND OTHERS).
10. IT IS THE CUSTOMER'S DECISION WHAT UNIT TO BUY AND TO INSTALL. PUT DOWN ALL REQUIREMENTS IN WRITING, BEFORE ORDERING.
11. WHO CAN INSTALL THE HAVC PRODUCTS HEREOF:
    * ONLY LICENSED HVAC CONTRACTOR(S)/TECHNIICIAN(S), WHO KEEPS A CURRENT VALID LICENSE FOR HEATING AND COOLING EQUIPMENT, SUCH AS AIR CONDITIONER AND HEAT PUMP.
    * DON'T DO-IT-YOURSELF (DIY) HVAC EQUIPMENT, WHICH IS NOT ALLOWED BY THE LAWS, NOR WARRANTED BY YMGI.
12. IMPORTANT NOTES FOR INSTALLATION
    * SIZE WIRES AND CIRCUIT BREAKERS CORRECTLY, PER NEC CODES.
    * READ SPECIFICATION SHEETS OR OTHER MANTERIALS FOR LIMITS OF OPERATING TEMPERATURE RANAGES, PIPING LENGTH, AND PERFORMANCE AT DIFFERENT AMBIENT TEMPERATURES.
    * READ MANUALS AND CHECK TO MAKE SURE ALL ARE CLEAR BEFORE INSTALLING THE UNITS.
    * WATCH INSTALLATION AND MAKE SURE THERE ARE NO BUGS LEFT IN YOUR HAVC SYSTEMS.
    * COVER THE ENDS OF THE INTER-CONNECTING COPPER TUBES BEFORE PULLING THROUGH STRUCTURES TO KEEP DEBRIS OR OTHER FOREIGN SUBSTANCES FROM ENTERING THE REFRIGERATION SYSTEM AS IT WILL CONTAMINATE THE SYSTEM AND DAMAGE THE SYSTEM, DOWN THE ROAD.
    * VACUUM THE INTERCONNECTING TUBES AND INDOOR UNITS AND CHECK FOR LEAKAGE, BEFORE RELEASING REFRIGERANT FROM OUTDOOR UNIT TO INDOOR UNIT.
    * TRIAL RUNNING SYSTEMS AND CHECK ALL FUNCTIONS, BEFORE PAYING OR LETTING THE INSTALLER LEAVE THE JOB SITE.
    * JOT DOWN INSTALLER'S CONTACT INFORMATION AND SERVICE INVOICE/RECIEPT FOR FUTURE QUESTIONS OR CUSTOMER SERVICE.

VERY IMPORTANT NOTES TO DEAR CUSTOMERS FOR REFRIGERANT RELATED HVAC PRODUCTS, ESPECIALLY THE SPLIT TYPE

By Placing Your Order and Purchasing Our Products from an Authorized Distributor, or by Opening the Carton Box, You Shall Have Read All Manuals and Instructions and Understood and Accepted and Agreed to All the Following:

What You Will Need to Do When Receiving the Products

Shall Check the Delivery Against the Order and Packing List to Make Sure There is No Unit/Part/Accessory Missing or Damage.

Shall Mark Any Unit and Part and Accessory Missing on the Delivery Confirmation Paperwork.

Shall Report Any Freight Damage to the Carrier within 24 Hours as of Delivery.

Shall Report Any Unit and Part and Accessory Missing or Damage to Sales/Customer Service within 24 hours as of Delivery.

No Report after 24 Hours as of Delivery, Meaning Units/Parts/Accessories Have Been Delivered Completely and No Damage is Found.

What You Will Accept before Breaking the Box Seal and Opening the Box

Due to Continuous Product/Engineering Improvement, as Well as Viewing Angles and Background Affects, the Contained Unit May Look Slightly Different from What is Shown on the Carton Box or Spec. Brochures.

The Units Were Manufactured Some Time Prior to the Shipping Date. Normally The Box is Sealed and The Units/Parts Contained Are New and Have not Been Used. From Time to Time, Shipper Does Select Boxes Randomly to Check the Contained Units/Parts to Make Sure Everything is All Right, before Shipping. But, All Units/Parts Have not Been Used.

The Product is Designed and Manufactured and Tested to Be Free of Defects at Manufacturer Plants, but if the Unit Will Work Properly or Not, Only Depends upon Many other Factors, Especially the Quality of Installation. Anything Not Working May Not be the Product Itself. Which Could be Power Failure, Insufficient or Wrong Wiring, Not Vacuuming, Pipe Bending or Kinking or Leaking, Unit/Parts Dropping, Water Damage, and So on.

If the product, for Some Uncontrolled Factors During Transportation and Installation, Doesn't Function Properly or Timely Due to Unexpected Failure, You Agree to Have the Licensed Installer (HVAC or Electrician), instead of Yourself, Call the Manufacturer Technical Support and/or Customer Service to Walk through Some Technical Steps Together, In Order to Find Out the Failure Reason and What Parts Are Needed. All the Effort is To Limit the Problems and Make the Unit Work for You As Soon As Possible and There Will Be No Extra Charge.

What You Need to Pay Attention to at Installation

Understand to Save on Somethings but Not Everything.

In Order to Ensure Installation Quality and Validate the Factory Warranty, You Must Hire a Currently Validly Licensed HVAC Technician to Conduct Electricity and Refrigerant-Related Installation and Trouble-Shooting Work and Follow Related Local/DOE/EPA Codes and Laws.

Contact Your Licensed HVAC Technician to Determine What Portion Can be Done Do-it-Yourself (DIY) and Save Some Money. DIY Installation Varies Upon Many Factors. DIY Installation May Succeed, but May Be Taking Chance and/or Running Risks.

Decision Maker's Own Risks and Is NOT Guaranteed and Endorsed by the Manufacturer.

Do Not Pay your Technician in Full, Until at Least 30 Days after All Installation is Finished and Unit(s) Work Properly.

What You Need to Know During Installation or Operation

Cover the Interconnecting Pipes Before Pulling through Structures, to Keep Dust, Debris and Other Foreign Substances from Entering and Damaging the Refrigeration System.

Vacuum and Conduct Leakage Check for the Interconnecting Pipes and Indoor Unit. If There is Any Leakage, Need to Find it and Fix It.

Must Make Sure the System is Sealed Tight without Any Leakage Potential, before Releasing Refrigerant from the Condensing Unit to the Interconnecting Pipes and Indoor Unit.

For Technical Questions, In Order to Help You in a timely manner, You Shall Have the Licensed Technician/Installer, Instead of Yourself, Check What is Going on before Talking to the Sales Distributor and/or Manufacturer Technical Support from Your Job Site.

For Product Pricing and Product Availability, You Shall Talk with Sales.

For How to Use the Unit or if You Need Any Parts, You Shall Read the Manuals or Go Online or Contact Your Sales/Customer Service at Distributor, if Not Available, then Contact Customer Service/Support at Manufacturer, via the Contact Information Printed in the Manual and/or Unit.

What You Need to Know Before Your Contractor/ Technician Finishes the Installation

Witness the Contractor/Technician Checking the System Thoroughly and All Functions and Make Sure All Are Good.

Have the Contractor/Technician Sign on the Paperwork.

Don't Pay to the Contractor/Technician in Full Until the Whole System Works Smoothly without Any Problem for at Least 30 Days.

Tell the Contractor/Technician that They Need to Come to the Job Site to Check the System, if There is Anything Not Right, Since You Pay to Get Their Service.

Tell the Contractor/Technician that They, not the Customer/End User, Will be the One to Talk to the Factory Technical Support, Technically, if There is Anything Wrong or Abnormal, In Order to Communicate Efficiently and Productively.

What You Need to Know about Warranty

If the Units are Installed Properly, Following Manufacturer Instructions, by Licensed HVAC Technician, the Units are Covered with a Standard Warranty which Covers 5-year Compressor and 1-year Other Parts Only.

In Standard Factory Warranty, **NO LABOR IS INCLUDED.**

Extended Warranty shall be Purchased at Original Unit Ordering, at Extra Cost to Cover More Years of Parts and/or Labor.

Units/Parts Shipping is Ground Only. Expedited Express Shipping Shall be Requested in Writing at Extra Cost.

PREPARATION BEFORE USE

Before using the air conditioner, be sure to check and preset the following.

REMOTE CONTROLLER PRESETTING

The remote control is *NOT* presetting as Cooling Only Air Conditioner or Heat Pump by manufacturer. Each time after the batteries are replaced the Cooling indicator and Heating indicator will flash alternately on LCD screen of the remota control..
User can preset the remote controller type depending on the air conditioner type you have purchased as follows:
Press any button when flashes, Heat Pump is set.
Press any button when flashes, Cooling Only is set.
If you don't press any button within 12 seconds, the remote control is preset as Heat Pump automatically.

Note:
If the system you have purchased is a cooling only unit, there will be no response even if the remote control is preset for heat pump. it doesn't bring any matter. But if the air conditioner you purchased is a Heat Pump one, and you preset the remote controller as Cooling Only, then you CAN NOT preset the Heating operation with the remote controller.

BACK-LIGHT FUNCTION (OPTIONAL)

Hold down any button of remote control for about 2 seconds, back-light turns on. When the button is released the back light will automatically shut off within 10 seconds.

Note: Back-light is an optional function.

AUTO RESTART PRESETTING

If you want auto restart function, let the unit energize, hold down the Emergency button (ON/OFF) on the indoor unit for over 5 seconds, auto restart function is set with buzz sound, air conditioner is on standby.

If auto restart has been set, hold down the Emergency button (ON/OFF) on the indoor unit for over 5 seconds, auto restart function is canceled with buzz sound, air conditioner is on standby.

IMPORTANT NOTES

SAFETY WARNINGS

READ THESE SAFETY WARNINGS COMPLETELY PRIOR TO ANY USE.

	Ground connection
	Disconnect the plug

	Forbidden
	Imperative

These precautions are essential and must be strictly observed.

DO NOT pull on the power cord or refrigeration lines. Install them in a secured position. A line set plastic cover is recommended.

DO NOT install the unit in places where there is exposure to flammable materials or gas leakage.

DO NOT use wire or circuit breakers that do not meet electrical safety standards. Several circuits cannot be connected to one breaker.

DO NOT wire or open the unit while it is running. Make sure to shut off all circuits prior to inspecting or servicing the unit.

DO NOT install unit in a damp laundry room or near flammable gas. All units must be protected by certified electrical circuit breakers and in accordance with all safety codes.

DO NOT use the unit in cool or dry mode for prolonged periods where humidity is higher than 80%.

DO NOT install the indoor unit close to cooking surfaces or ventilation systems. Poor placement could inhibit peak performance.

DO NOT blow cold air directly towards people for extended periods. It may get you a bad cold.

DO NOT use chemical solvents, flammable insecticides, or abrasive materials. Clean the unit only with a soft dry cloth or rag.

DO NOT continue to operate the unit if there is any abnormal odor, burning, scorching, or smoke. Stop and disconnect the unit immediately.

DO NOT use the system for anything other than what it was designed for or any non-HVAC purposes. Do not store near food, paint, or other chemicals.

DO NOT operate the unit for prolonged periods without refreshing ambient air. Opening a door or window periodically will suffice.

* A Good unit may not work properly or correctly. as designed or manufactured, if not installed properly or correctly.
* Customer do-it-yourself (DIY) installation caused and/or will cause trouble to the unit and your property and yourself.
* YMGI doesn't allow nor recommend nor honor warranty for DIY installation. Customers take full responsibility for DIY installation.
* DIY installation may save money up front, but will cost you more money and headaches down the road.

SAFETY CAUTIONS AND ALERTS

Installation, Operation, Maintenance, and Service shall follow professional standards and practices for conventional cooling and heating equipment, under International, National, State, City or Local Codes, and follow guidelines listed in all related manuals and associated product information provided directly, from YMGI. Failure to adhere to proper Installation, Operation, Maintenance, and Service could result in unit malfunction damage to equipment, personal property, or physical injury, or even death, which YMGI is not responsible for.

Installation must be performed following the YMGI Installation/Maintenance Manuals.

Installation must be performed by a certified technical installer only. DO NOT attempt to install the unit by yourself trying to save money. **Do-It-Yourself (DIY)** installation will void YMGI provided warranty and could result in injury or death, or property damage due to fire, electrical shock, leaking, collapsing, which YMGI is not responsible for.

Install the unit onto a strong load bearing structure. The location must be capable of handling the weight load of the unit to prevent the unit from falling or causing injury. Attach both the indoor and outdoor units to the brackets that are fixed to the right position securely.

Only use manufacturer specified and codes allowed wires and conduits to connect to the units so the stress is not applied to the sections. Incomplete connecting and insecure fixing could cause fire or damage.

Wiring must conform to national regulations. Failure to adhere to these standards could result in personal injury or death or property damage due to fire, electrical shock, falling units, or leaking.

Connect the power cord directly to a designated and exclusive AC Power Circuit Breaker and or Disconnect Switch. The circuit must exceed permissible currents and is free of insulation and contact defects. Shall refrain from intermediate or multiple connections to avoid fire or electric shock.

DO NOT supply power until all wiring and tubing is checked completely.

Double check for gas leaks during or after installation. The refrigerant gas may cause harmful substances when subjected to heat or fire. Refrigerant leakage will cause unit not to generate enough cooling or heating and even damage compressors and other parts.

Shut off the main power prior to and during installation to avoid electrical shock. Make sure that the electrical power is disconnected from the unit by making a notice or put a sign at the power switch panel, to keep other people from setting the power back during installation.

Connect all wiring securely. Any loose wire or other bad contact may cause an electrical arc, overheating, or fire hazard. Make sure that the unit is grounded following YMGI Instructions and NEC, International, State, City, and Local Codes. Electrical cover shall be securely attached to the indoor and outdoor unit service panels, otherwise, could result in fire or electric shock due to accumulation of dust, sediments, water, moisture, etc.

Only use authorized YMGI parts in the installation, maintenance, service, and repair of YMGI units. The use of non-authorized or defective parts will void the warranty and could cause injury or death or property damage due to water leakage, falling units, fire, electric shock, etc.

Pay extreme caution to interconnecting refrigerant copper tubing, when installing or relocating the unit. Make sure that no other substance than the specified refrigerant enters the refrigeration circuit. Any presence of foreign substances such as air or water or moisture can cause an abnormal pressure rise or overheat, which will result in an inefficient unit performance or unit malfunctions, and will shorten unit lifetime.

Pay extreme caution to interconnecting refrigerant copper tubing when installing or relocating split system, as applicable.
1) Make sure that no substance other than the specified refrigerant enters the refrigeration circuit. Any presence of foreign substances such as air or water or moisture can cause an abnormal pressure or overheat which will result in an inefficient unit performance or unit malfunction and will shorten the longevity of the unit.
2) Tape two ends of the copper tubing, tape the wires for the corresponding indoor unit to the copper tubing, and mark well with either A, B, C or D to identify each copper tubing/wiring bundle. Do not cross wire or mismatch tubing among indoor units of the multiple zone systems. Connect the electrical wiring and copper tubing from each zone of indoor unit to the corresponding wiring and copper tubing connections of the corresponding outdoor section (at outdoor condensing unit). Failure to do so will cause unit malfunctions, or damages to the compressors and other parts in the unit and even property or personal injuries.

YMGI LIABILITY DISCLAIMER

YMGI is NOT and shall NOT be responsible for any problems due to customer do it yourself(DIY) installation, non-licensed installation, and other unprofessional, incorrect, incomplete installation, abuse to the unit, or abnormal usage which would be considered outside normal constraints, or recommended ranges, and natural disasters such as fire, flood, earthquake, lighting, or others similar.

YMGI IS NOT AND SHALL NOT BE RESPONSIBLE FOR:

Damage to the units or property or person due to careless, or incautious, or rough handling at job site, such as pulling wires or pipes or plastic parts too hard, dropping units, robbing unit surfaces, and etc.

Damage to the units or property or person due to unprofessional or incorrect or incomplete mechanical installation of units. Examples, not limited to, are: sharp bending, not finding kinks, cracking or deterioration of connecting pipes, unevenly sitting units, not securing the units, not cleaning or leaving debris inside of or not tightening interconnecting pipes, not finding refrigerant or water leakage, not vacuuming, not opening refrigerant stopping valves at condensing units, not checking pressures, not covering bared refrigerant pipes and connections, not taping wire connections, not sealing drain pipe connections, incorrect piping such as crossing piping among multiple zones, and etc.

Accumulated costs, services, or disasters due to unprofessional or incorrect or incomplete installation, or abnormal usage of the units.

Under performance or damage to the unit, property or person, at low vacuum level due to unprofessional or incautious or bad installation, or damage to the unit or interconnecting pipes after installation and during usage.

Under performance or damage due to exceeding the recommended distances or elevation levels between indoor and outdoor units.

Under performance or damage due to the presence of any foreign substances left inside refrigeration pipes.

Under performance or damage due to the materials left in the air-conditioner during installation.

Under performance due to poor installation or abnormal usage in other formats.

Water leakage problems due to incorrect or poor installation or unsealed drain hoses.

Damage due to refrigerant or oil leakage as a result of unsuccessful pipe installation or damage to the unit and or pipes during or after installation.

Damage due to supplying power before all wiring and tubing is completely finished and checked.

Damage due to not keeping units in the right positions during handling, installation or operation.

Damage to the units or property or person due to customer do it yourself(DIY) installation, non-licensed installation, and other unprofessional or incorrect or incomplete mechanical or electrical installation not mentioned above.

Damage to the units or property or person due to any other Improper Usage not conforming to YMGI user regulations, user operation manuals and factory recommendations.

Under performance or damage due to operating the air conditioning system under poor physical conditions such as anywhere there is airflow blockage, too much sunshine, too much corrosive gas or the sort.

Under performance or damage due to the Usage outside the YMGI recommended operation ambient conditions including proper temperature and humidity ranges.

Under performance or damage due to the undersized or oversized unit selection, improper design, incorrect unit anticipation, and the sort.

Damage due to not grounding or poorly grounding unit, incorrectly wiring units, loose or unsecured wiring, or other bad contact which may cause an electrical arc, overheating, or fire hazard.

Damage or repairs required as a consequence of faulty installation or application.

Damage due to failure to start as a consequence of exceeding recommended voltage ranges (too low or too high), blown fuses, open circuit breakers.

Damage due to the inadequacy or interruption of electrical service.

Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.

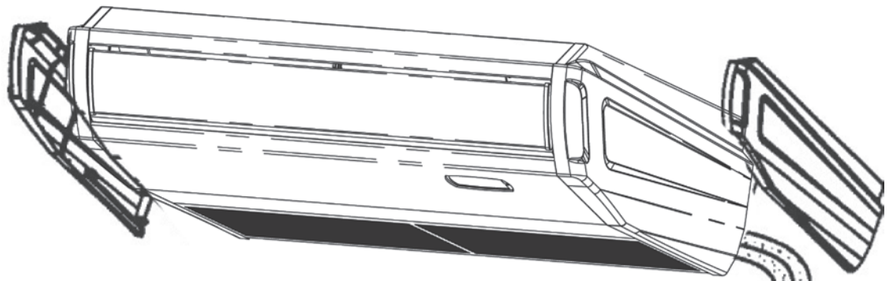
Damage due to the usage of parts not supplied or designated by YMGI Group.

Damage to the unit, property, and/or person of whatever kind, direct or indirect, special or consequential, resulting from the improper installation or usage of such products.

Damage from the units installed and operated outside **USA or Canada**.

Damage as a result of floods, winds, fires, lightening, accidents, corrosive atmosphere, or other conditions beyond the control of YMGI Group.

PART NAMES AND THEIR FUNCTIONS

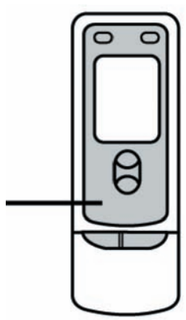


Indicator light state

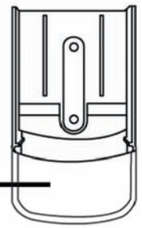
1) POWER indicator light:
   on/off with system running/stop and flash when system in protection state
2) COOL indicator light:
   on/off with the operation of cool ON/OFF
3) HEAT indicator light:
   on/off with the operation of theat ON/OFF

Drain Pipe
To drain water produced while the unit is functioning

Refrigerant Tube



Remote Control



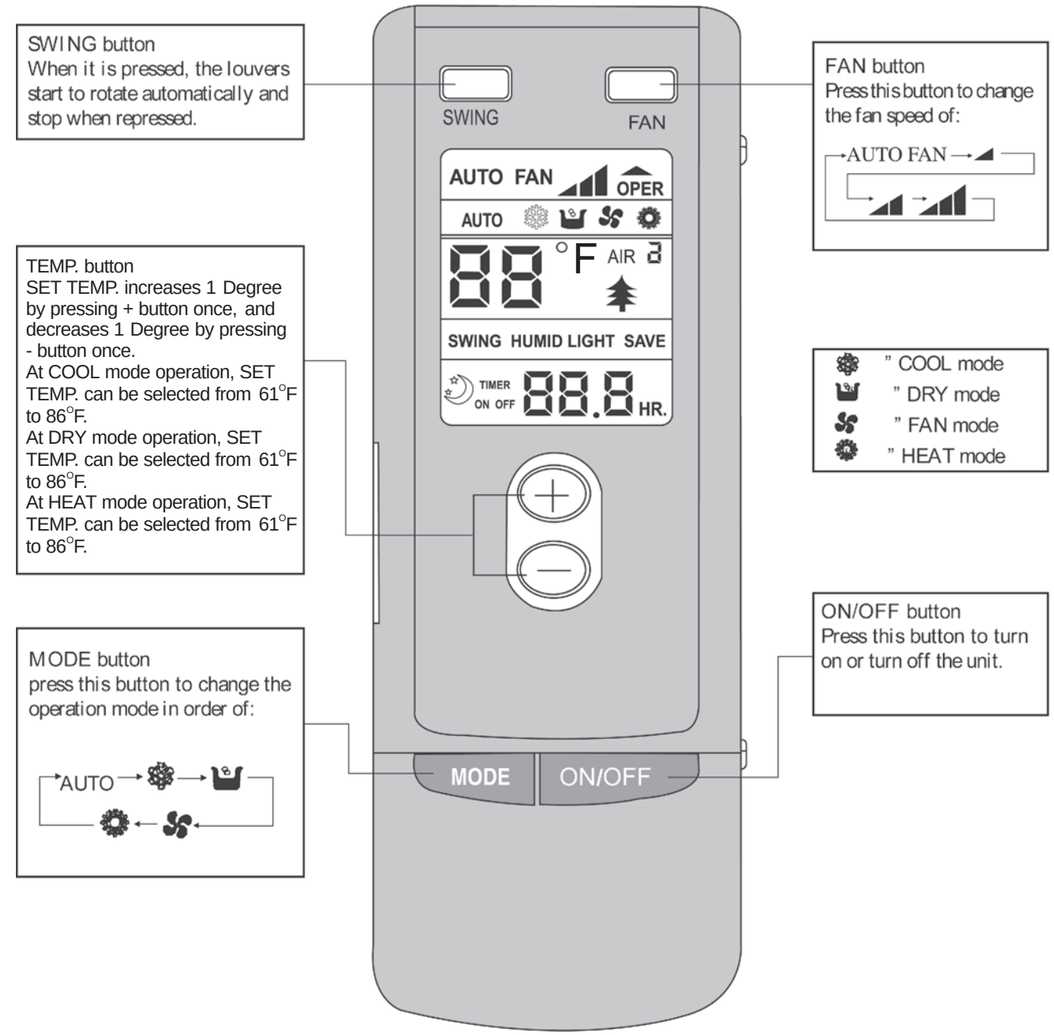
Remote Control Holder

HOW TO USE THE REMOTE CONTROL TO OPERATE THE UNIT

NAME AND FUNCTION-REMOTE CONTROL

Note:

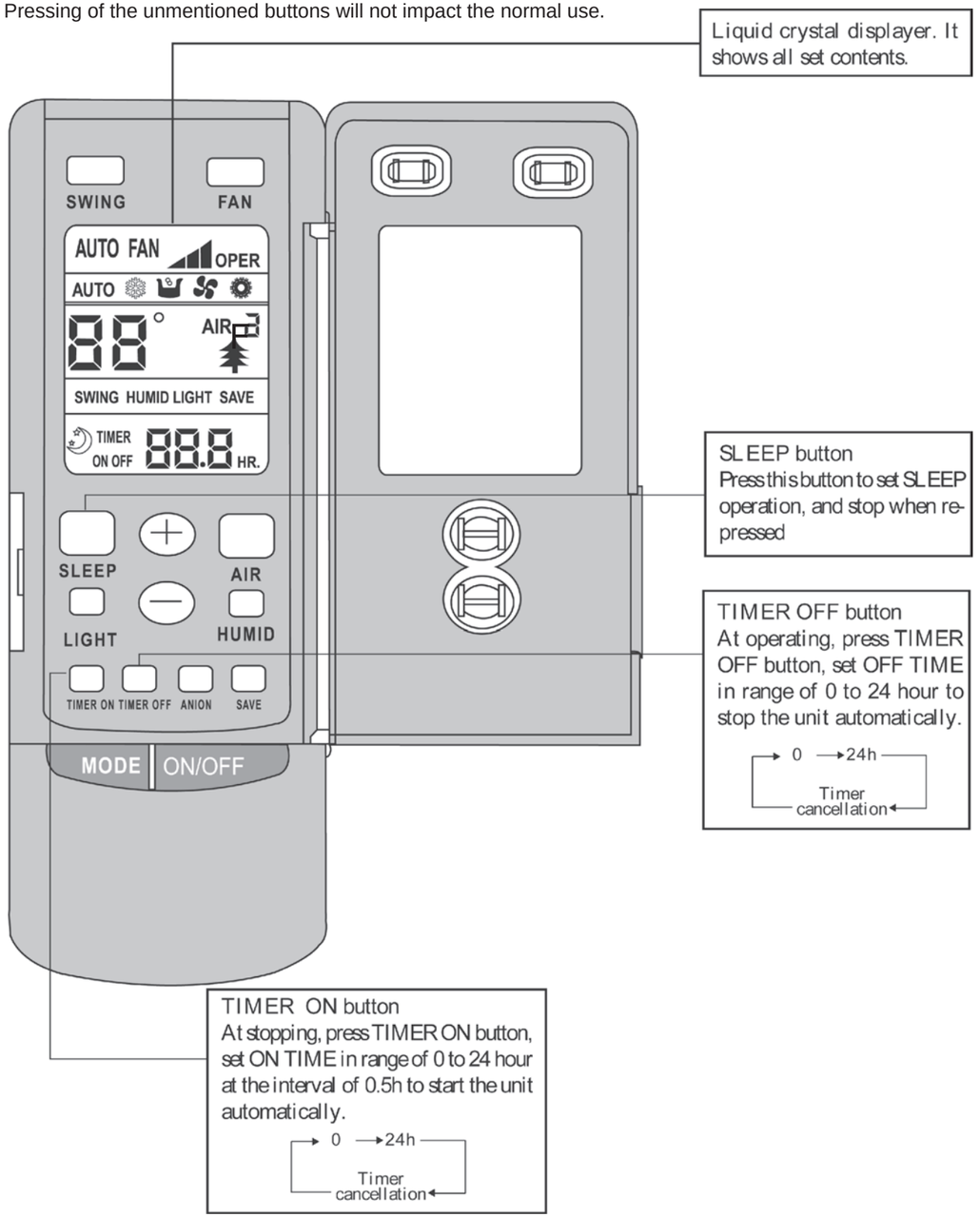
* Be sure that there are no obstructions between receiver and remote controller.
* Don't drop or throw the remote controller.
* Keep all liquids away from the remote control and do not allow the remote to be in direct sunlight or any place hot.



NAME AND FUNCTION-REMOTE CONTROL. (REMOVE THE COVER)

Note:

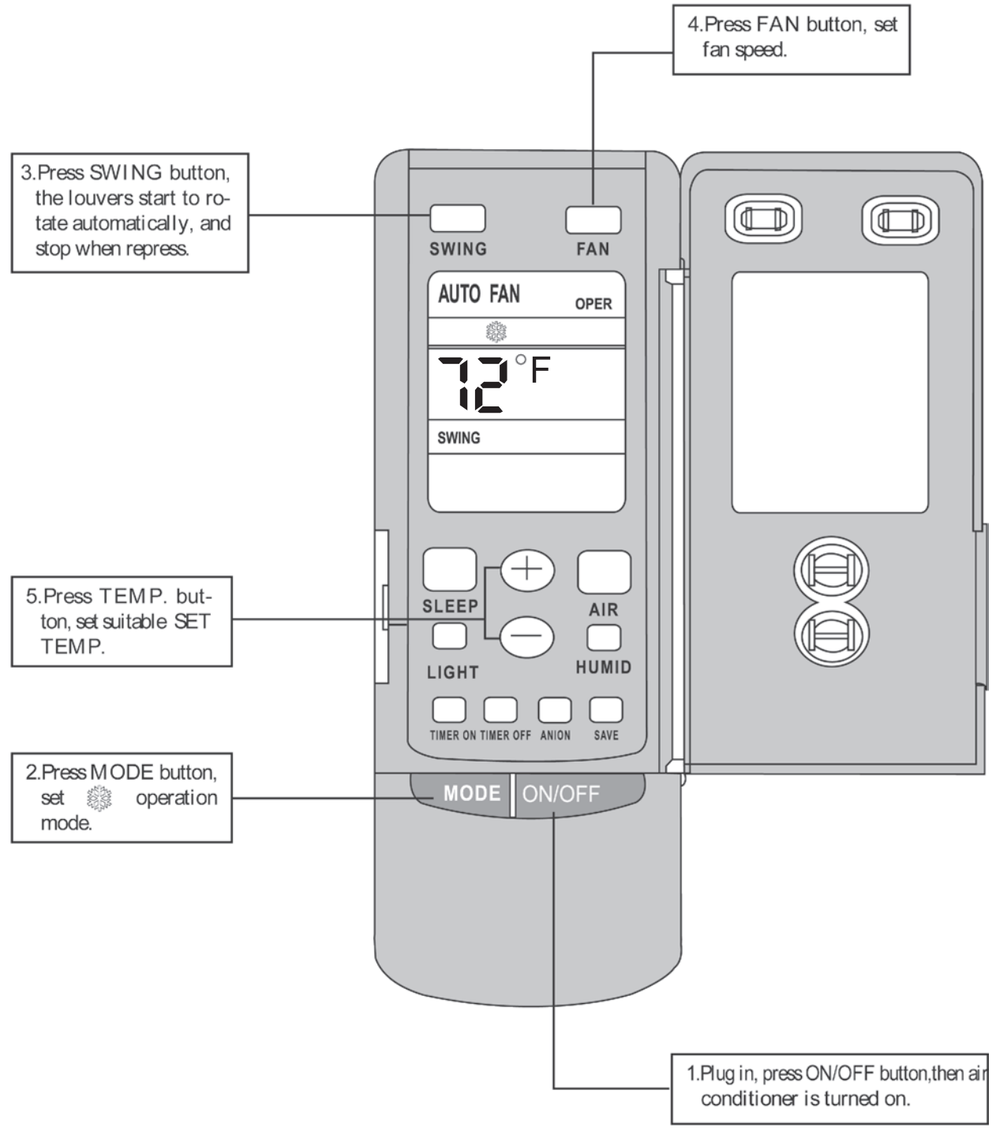
* This type of remote controller is a kind of new current controller. some buttons of the controller which are not available to this Air conditioner will not be described below.
* Pressing of the unmentioned buttons will not impact the normal use.



HOW TO USE THE REMOTE CONTROL TO OPERATE THE UNIT

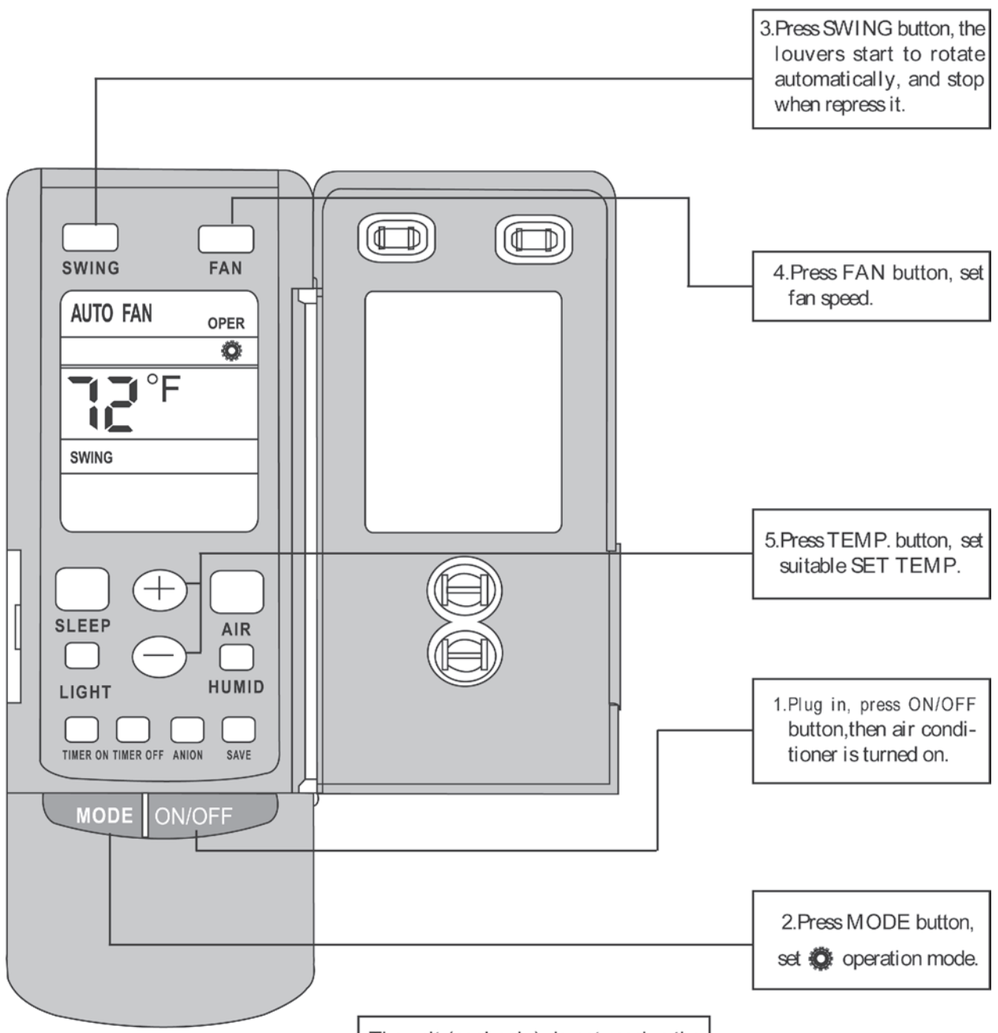
COOL MODE OPERATION PROCEDURE

* Depending on the difference between the room temp. and the set temp. the microcomputer will control whether the cooling mode will be on or not.
* If room temp. is higher than set temp., compressor runs at COOL mode.
* If room temp. is lower than set temp., compressor stops and only indoor fan motor runs.
* SET TEMP. should be in range of 61°F to 86°F.



HEAT MODE OPERATION PROCEDURE

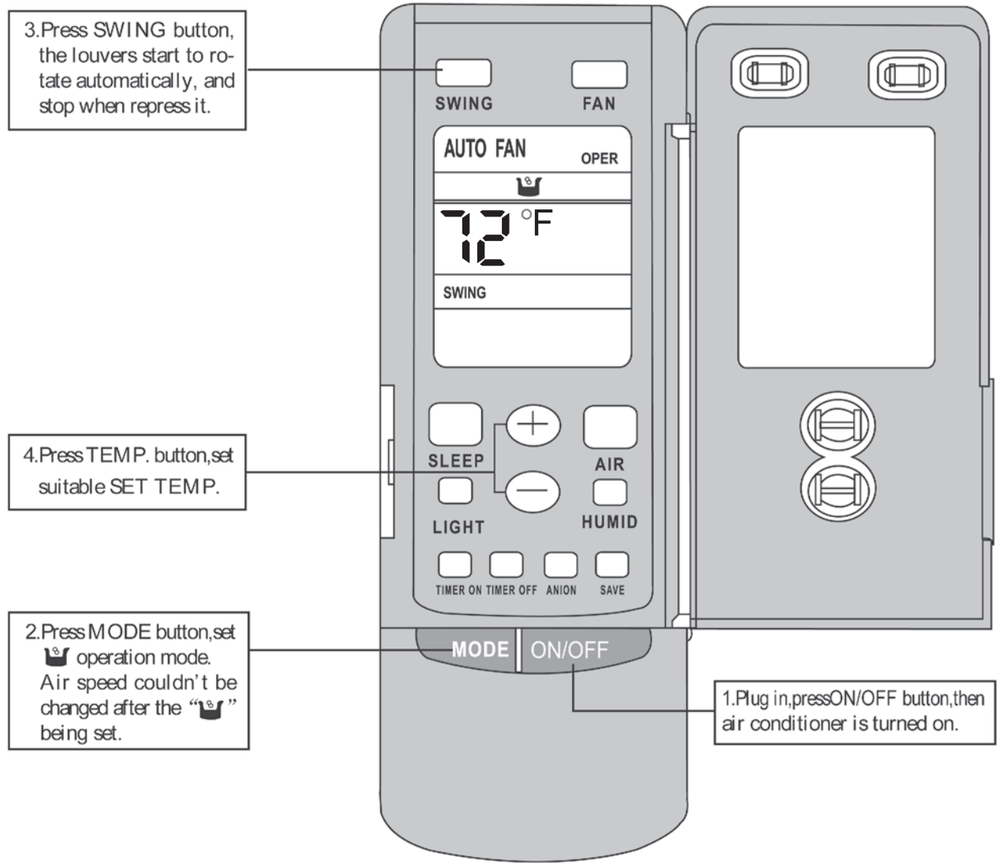
* If room temp. is lower than set temp, compressor runs at HEAT mode.
* If room temp. is higher than set temp., compressor and outdoor fan motor stop.
* SET TEMP. should be in range of 61°F to 86°F.



The unit (cool only) do not receive the control signal which is used under the heat mode.

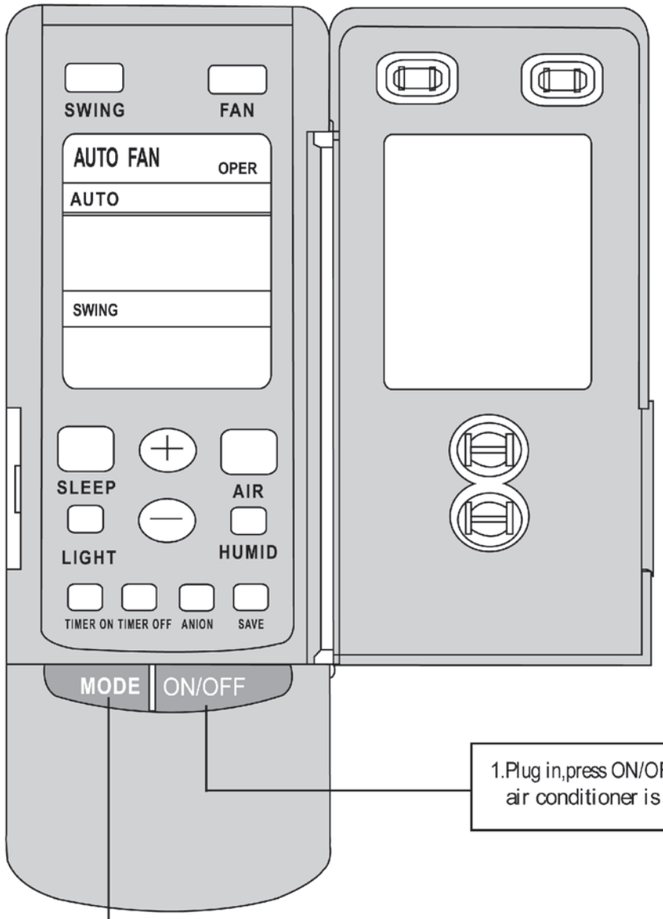
DRY MODE OPERATION PROCEDURE

* If room temp. is lower than set temp., compressor ,outdoor fan motor stop. If room temp. is between 2 of set temp., air conditioner is drying. If room temp. is higher than set temp, it's at COOL mode.
* SET TEMP. should be in range of 61°F to 86°F.



AUTO MODE OPERATION PROCEDURE

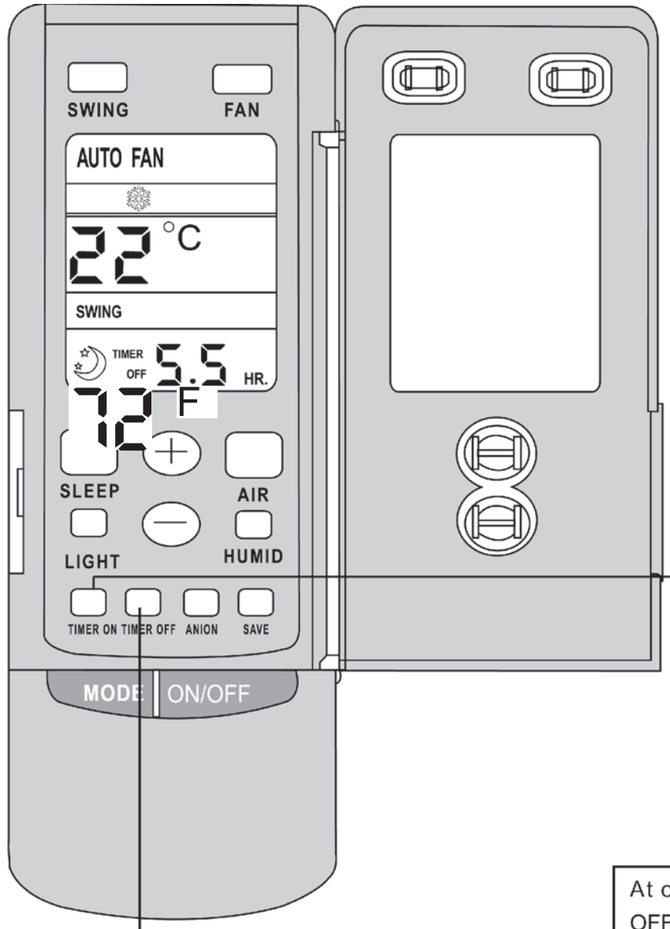
* Under auto mode operation, standard set temp is 77 °F for cool and 68 °F for heat mode.



1.Plug in,press ON/OFF button, then air conditioner is turned on.

2.According to room temp. micro-computer can automatically set ❄ 、⚙ 、🜂 operation mode,so as for best effect.

TIMER MODE OPERATION PROCEDURE



At stopping,press TIMER ON button, set ON TIME in range of 0 to 24 hour to start the unit automatically.

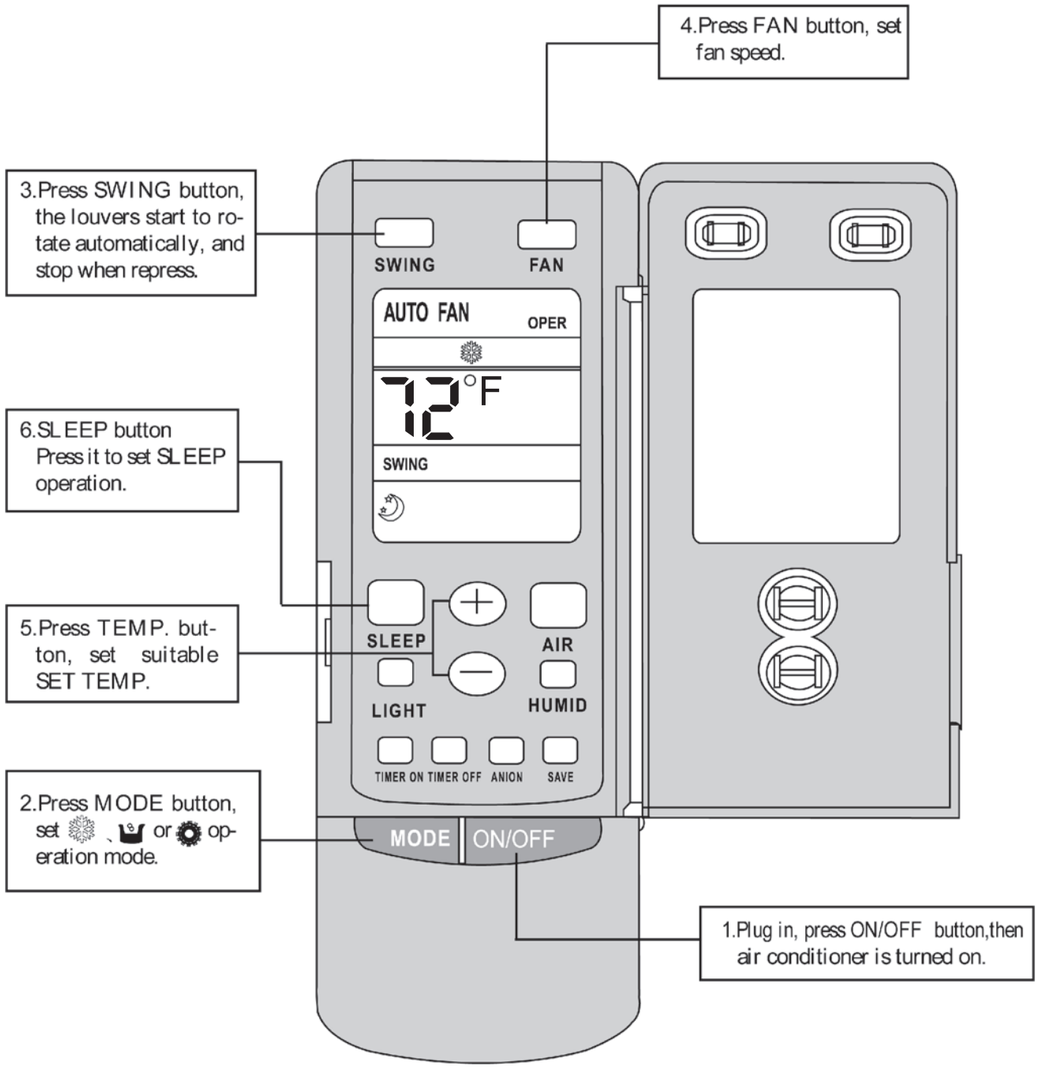
0 → 24h
Timer cancellation

At operating,press TIMER OFF button, set OFF TIME in range of 0 to 24 hour to stop the unit automatically.

0 → 24h
Timer cancellation

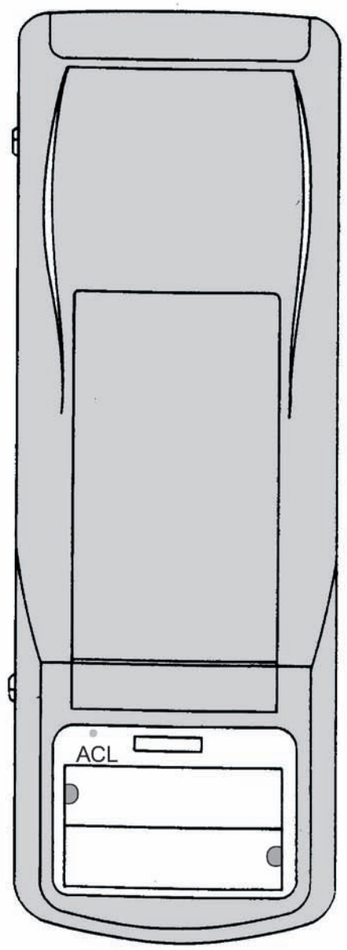
SLEEP MODE OPERATION PROCEDURE

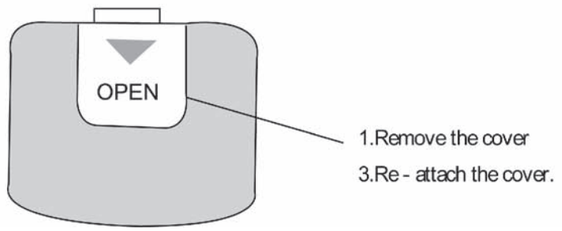
* As the unit is cooling or drying, if SLEEP operation is set, SET TEMP. would increase 1°F in 1 hour and 2°F in 2 hours.
* As the unit is heating, if SLEEP operation is set, SET TEMP. would decrease 1°F in 1 hour and 2°F in 2 hours.



How to insert batteries

1.Remove the cover from the back of the remote control.
2.Insert the two batteries (Two AAA dry - cell batteries) and press button "ACL".
3.Re - attach the cover.





NOTE:

- Don't confuse the new and worn or different types of batteries.
- Remove batteries when the remote controller is not in use for a longtime.
- The lifetime of the batteries is about one year.
- The remote controller should be placed about 1m or more away from the TV. or any other electric appliances.
- Bad batteries are forbidden

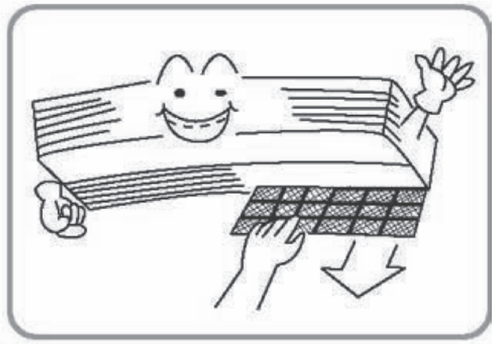
MAINTENANCE

WARNING:Before inspection and maintenance of the unit, always set the power switch to "OFF" to cut off the power supply.

3.1 CLEANING THE AIR FILTERS

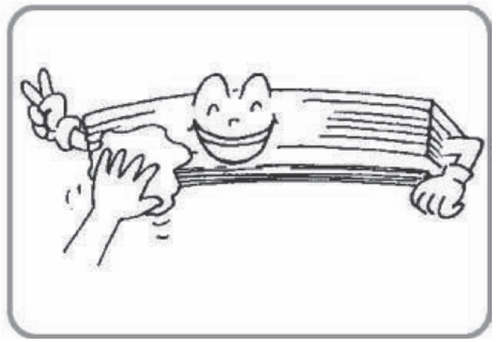
WARNING

- The air filter must be cleaned by profressional.



3.2 CLEANING THE UNIT THE ENCLOSURE

Clean the enclosure of the air conditioner and the remote control with dry cloth or a vacuum cleaner.If damp cloth is used, remove molsture by using dry cloth afterward.



⚠ CAUTION

* Do not use benzine gasoline, thinners or polishing products for cleaning.
* Do not wash with hot water(above 104°F),Some parts of the unit may be deformed.

3.3 AT THE START OF THE SEASON

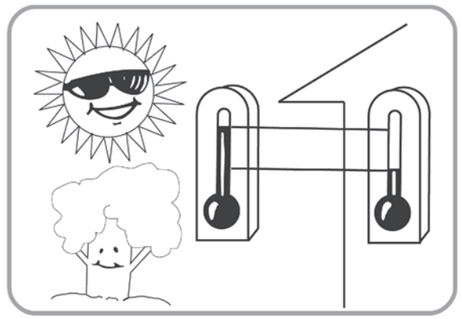
* Check that nothing blocks the air inlet and outlet of the indoor and outdoor units.
* Running the unit without air filters can cause malfunctions due to dirt or dust. Always install air filters at all times.
* Check that drainage hose is not bent or clogged.
* Check that the units are properly installed.

3.4 DURING THE OFF SEASON

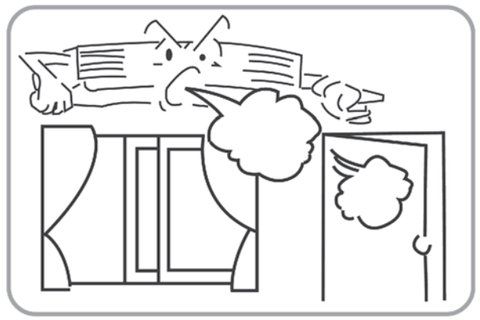
* Cut off the power supply main switch.
* Clean the enclosure.
* Leave the fan running for 2-3 hours to dry out the inside of the unit.

OPERATING GUIDE

- The temperature should not be set lower than what you need.This would lead to increase energy cost.

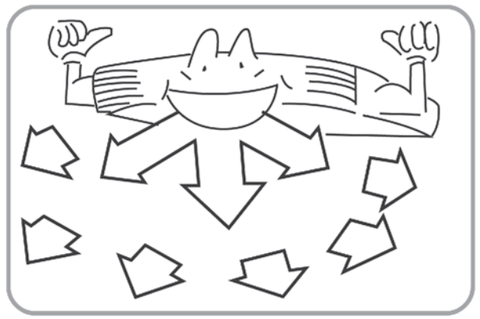


- Close window and door while operating the unit to prevent leakage of cooled air and save energy.

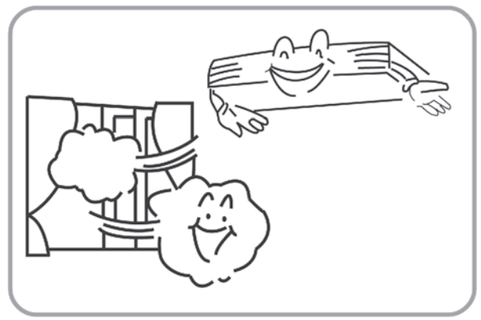


- Draw close curtains or close glass windows when cooling to prevent heat load from sun light which may cause more electricity cost.

* To distribute cool air throughout the room, adjust air flow directions shown by the arrows (see picture)to diffuse cool air.

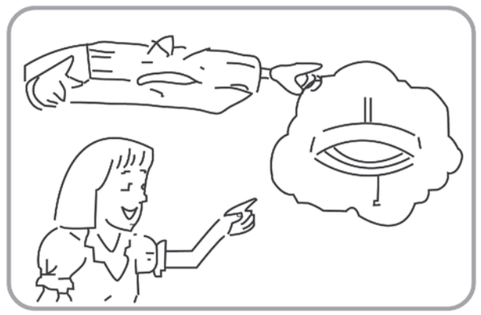


- In case of ineffective ventilation,open the window to ventilate the room air once in a while but not too long since cooled air will be uselessly dirained out.



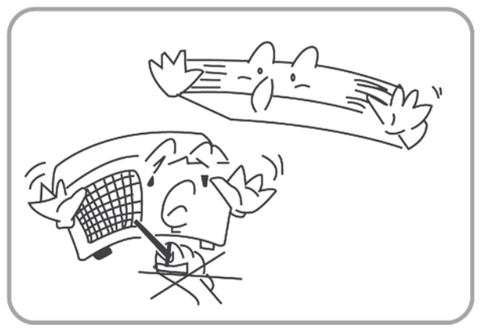
PRECAUTIONS

● Turn off the air conditioner if,while running, electricity interference occurs,if the unit is not to be used for a long time,cut off the power supply main switch.

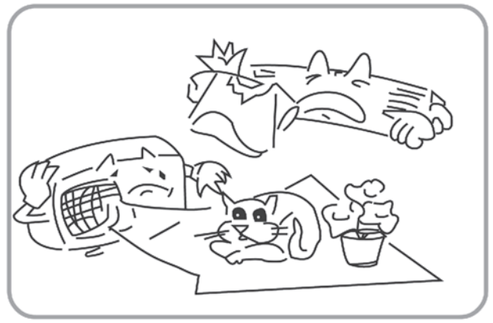


● Do not channel the air flow directly at people, especially infants,aged persons,or patients.

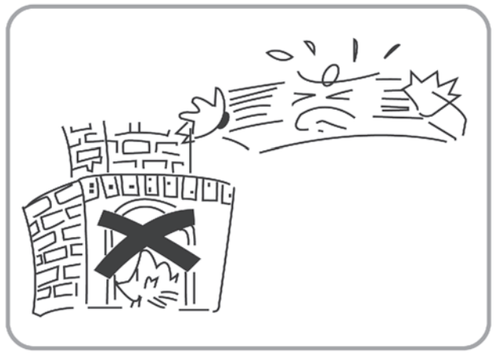
● Do not insert objects into the air inlet or outlet when the air conditioner is running as it may cause damage or personal injury.Also pay special attention when children are around.



● Do not locate any obstacle against the air flow direction of indoor and outdoor unit.Inefficient performance or malfunction may result.



* Do not locate a heater or any other heat source close to the unit. The heat may deform plastic parts.



● **WARNING:The appliance should not be used by children without supervisor.**

CHECKPOINTS BEFORE SERVICE CALL

· Check the following before contacting the service man.You may find the solution to your problems.After checking,if it still does not operate, please contact your local dealer.

PROBLEM	CAUSES
No operation	● Check if breaker switch is still on. ● Check if the timer switch is on or not.
The air conditioner runs but does not cool enough.	● Check if the preset temperature is too high. ● Check if the sunlight shines directly into the room. ● Check if the door and window are opened. ● Check if there is anything obstructing the air discharge. ● Check if exhaust fan still operates.
Vapor or mist fume coming out of the unit while running.	● Hot air in the room mixes with cool air. This causes smoke fume.
Inperative remote control.	● Check if the batteries are inserted in correct directions ● Check if the batteries are exhausted or not.

WARNING: The air condition must be installated and maintained by professional.

SELECTION OF INSTALLATION LOCATION

* Such a place where cool air can be distributed throughout the room.
* Such a place where condensation water is easily drained out.
* Such a place that can handle the weight of indoor unit.
* The appliance shall not be installed in the laundry.
* Such a place which has easy access for maintenance.

CAUTIONS FOR INSTALLATION WHERE AIR CONDITIONER TROUBLEIS LIABLE TO OCCUR.

* Where there is too much of oil area.
* Where it is acid base area.
* Where there is irregular electrical supply.

THERE ARE 2 STYLES OF INSTALLATION

***CEILING TYPE**

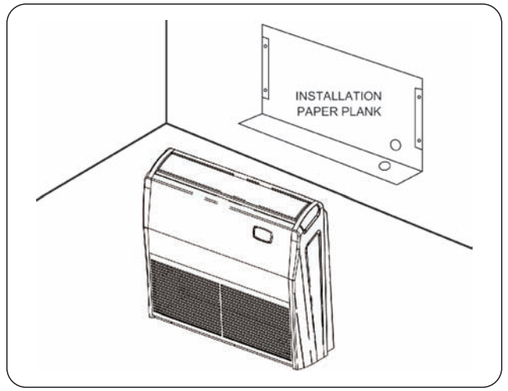
*** FLOOR TYPE**

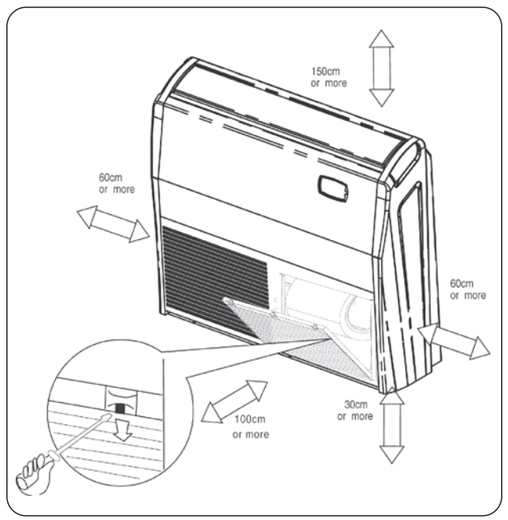
Each type is similar to the other as follows;

Determine the mounting position on ceiling or wall by using paper pattern to indicate indoor frame. Mark the pattern and pull out the paper pattern.

Remove the return grill, the side panel, and suspender from the indoor unit as per procedure below.

* press the fixing knob of the return grilles, the grilles will be opened wider and then pull it out from the indoor.
* Release the side panel by unscrewing as shown in the picture and pull the panel as shown by the arrows.





In case of hanging

It is possible to install using inward facing hanger brackets by not removing the brackets from the indoor unit.(Refer to Fig. 7)

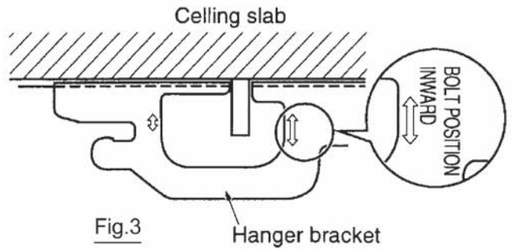


Fig.3

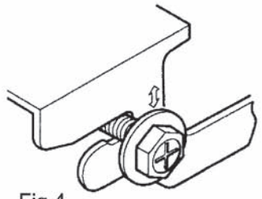


Fig.4

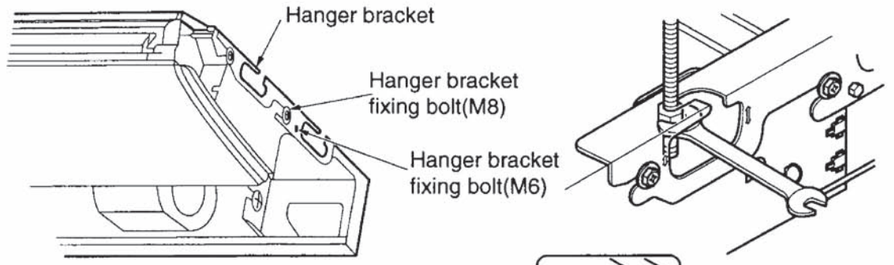


Fig.5

Fig.6

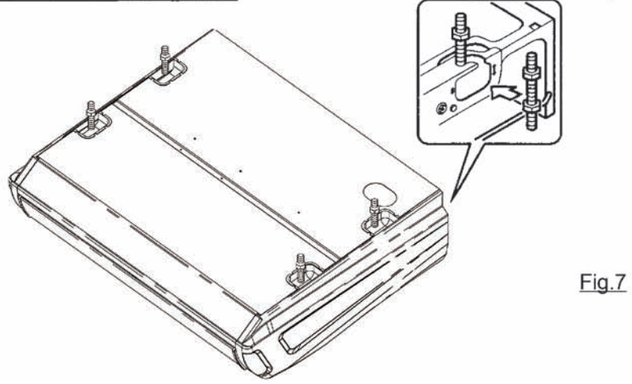
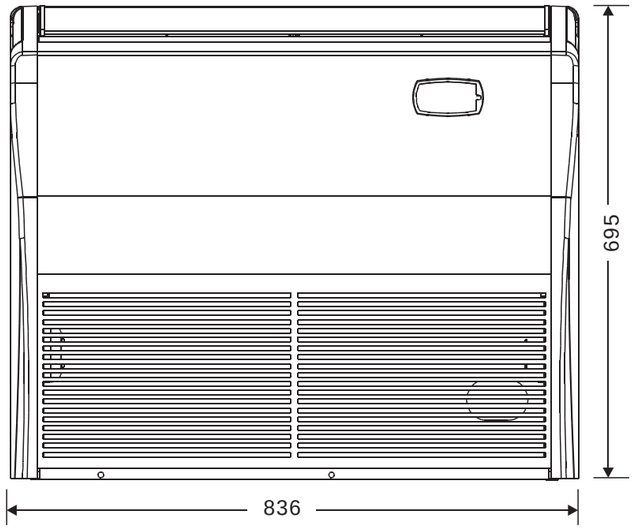
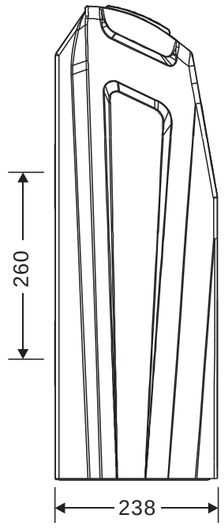


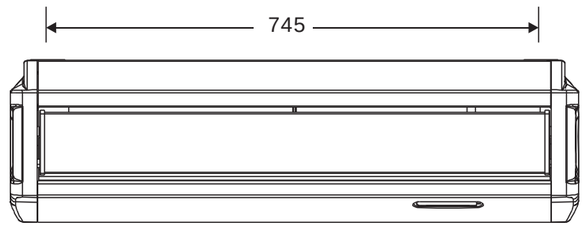
Fig.7

INSTALLATION DIMENSIONS OF THE INDOOR UNIT

When installing the indoor unit, you can refer the paper pattern for installation, and make sure that the drainage side must be 10mm lower than the other side in order to drain the condensation water fluently.

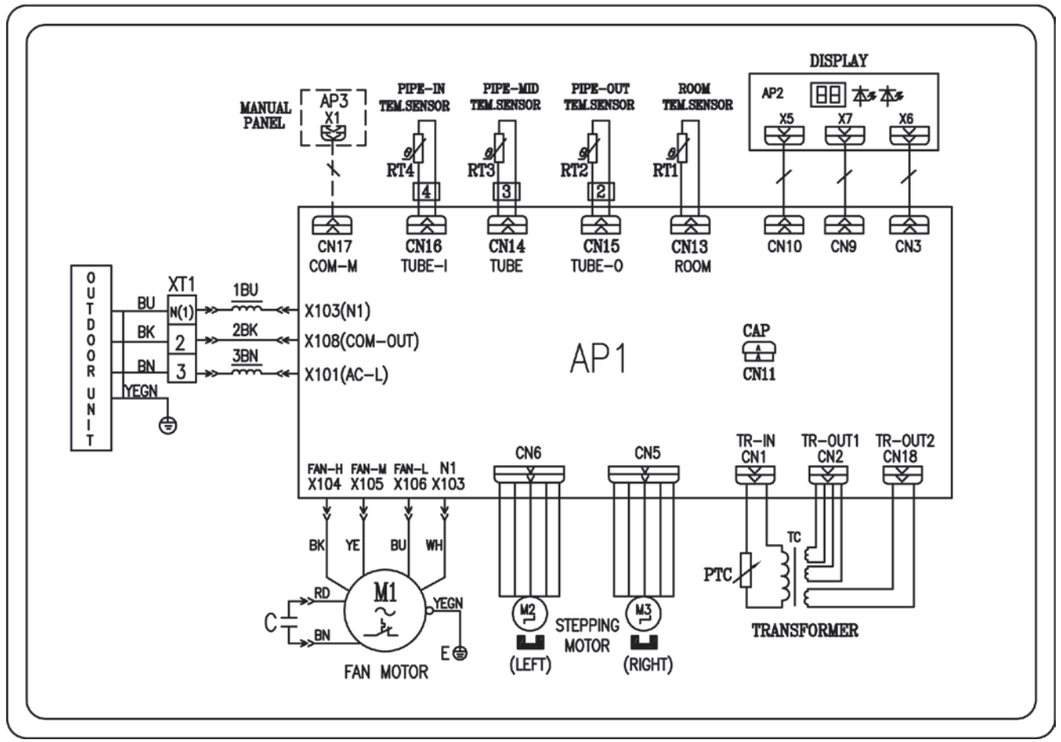






CIRCUIT DIAGRAM

WMMS-09EU-V2B(59)
WMMS-12EU-V2B(59)
WMMS-18EU-V2B(59)



REFRIGERANT PIPING WORK

8.1 Select copper pipes for gas and liquid as informed in specific table (see the pipe table below)

8.2 For dust and moisture protection, before assembly of the pipe and its insulation, both ends of the pipe must be covered.

8.3 Avoid pipe bending as much as possible. If it is necessary, the bending radius must be more than 3 cm. or 4 cm.

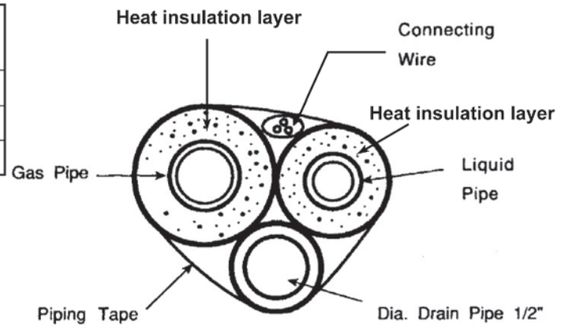
LIQUID PIPE TABLE

MODEL	PIPE SIZE	THICKNESS (mm.)
GTHD(09)AAND3A1AI	1/4"	0.5
GTHD(12)AAND3A1AI	1/4"	0.5
GTHD(18)AAND3A1AI	1/4"	0.5

Gas pipe and liquid pipe insulation depends upon copper pipe size and the insulation thickness = 3/8"

GAS PIPE TABLE

MODEL	PIPE SIZE	THICKNESS (mm.)
GTHD(09)AAND3A1AI	3/8"	0.71
GTHD(12)AAND3A1AI	Φ 12	0.8
GTHD(18)AAND3A1AI	Φ 12	0.8



8.4 The connection between an indoor unit and an outdoor unit.

- Unscrew the flare nut for releasing pressure gas in the indoor unit. If there is no high pressure gas blowing out, it is the signal of a leaking indoor unit.
- Fit the flare nut to the liquid pipe. Flare the pipe's end with flare tool.
- Tighten both flare nuts into gas pipe and liquid pipe at the indoor unit with two holding spanners.

WARNING: The temperature of refrigerant circuit will be high. please keep the connecting wire away from the naked pipe without Heat insulation layer.

DRAIN PIPING WORK

Make sure the drain flows out ⚠ **CAUTION**

(1) Drain piping

- The drain pipe outlet direction can be chosen from either the right rear or right.
- The diameter of the drain pipe should be equal to or greater than the diameter of the connecting pipe.
  (Vinyl tube;pipe size:20 mm;outer dimension:26 mm)
- Keep the drain pipe short and incline downwards at a gradient of at least 1/100 to prevent air pockets.(Refer to Fig.1)
- Use the attached drain hose ④ and clamp ⑤
  Insert the drain hose completely into the drain socket. Tighten the clamp within the range of gray tape until the screw head is less than 4 mm from the hose.(Refer to Fig.2,3)
- Wrap the attached sealing pad ⑪ over the clamp and drain hose to insulate.
  (Refer to Fig.3)
- No folding of drain hose inside the indoor unit.(Refer to Fig.4)

(2) Confirm that smooth drainage is achieved after the piping work.

- Pour 600 cc of water into the drain pan from the air outlet for confirming drainage.(Refer to Fig.5)

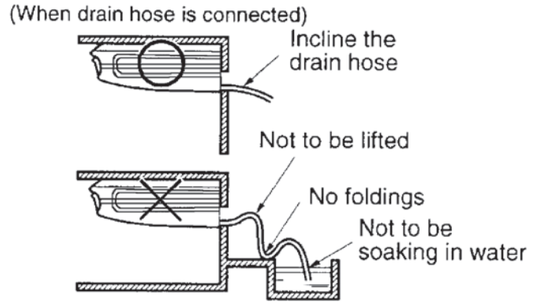


Fig.1

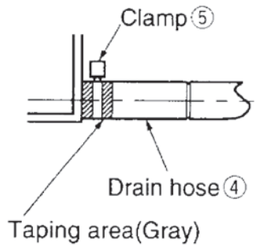


Fig.2

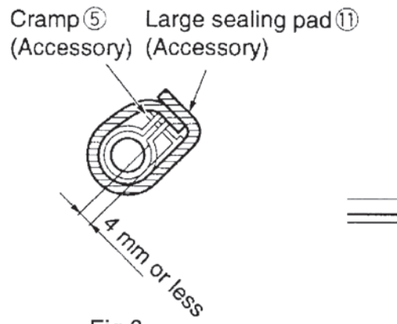


Fig.3

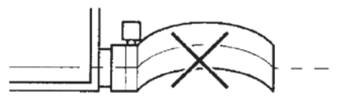


Fig.4

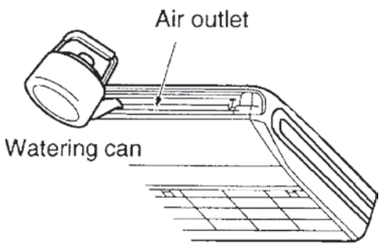


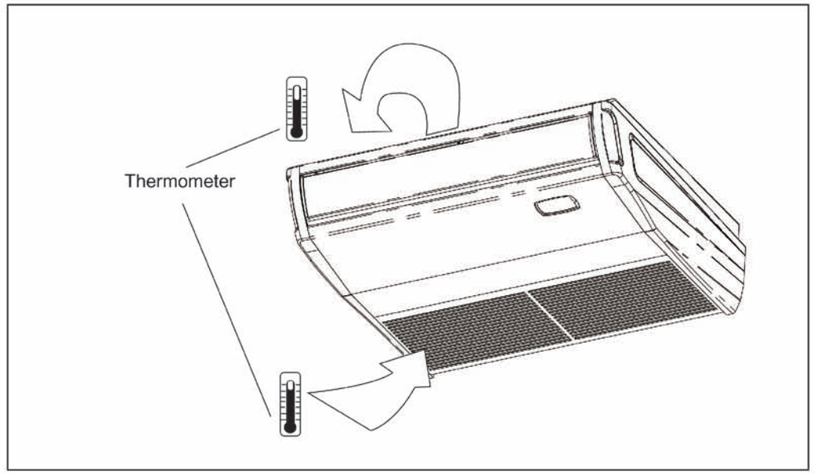
Fig.5

TEST RUNNING

EVALUATION OF THE PERFORMANCE

CAUTION:Operating by professional.

- • Check electrical main wire's voltage.
- • Use a thermometer to measure cool air both in and out.
- • The difference between in-air and out-air temperature should not be less than •• • • •



- • The unit has Auto-restart funcation, it can remember the running model before power-broken.

Accessories (Check that all accessory parts are present before installation)

No.	Name	Shape	Quantity	Specification	Notes
1	Outdoor drain elbow		1		
2	Outdoor drain stem		1		
3	Paper pattern for installaition		1		
4	Remote controller		1		
5	Battery		2	AAA 1.5V	
6	Power connection cord		1	H05RN-F 4G1.0	

* Be sure to use the exclusive accessories list above in the installation. or it will lead to water leakage. electric shock. fire. etc.

ROUTINE CHECK AFTER INSTALLATION

Check after installation

CAUTION:Operating by professional.

Items to be checked	Possible malfunction
Has it been fixed firmly?	The unit may drop,shake or emit noise.
Have you done the refrigerant leakage test?	It may cause insufficient refrigerating capacity.
Is heat insulation sufficient?	It may cause condensation and dripping.
Does the unit drain well?	It may cause condensation and dripping.
Is the voltage in accordance with the rated voltage marked on the nameplate?	It may cause electric malfunction or damage the part.
Is the electrical wiring and piping connection installed correctly and securely?	It may cause electric malfunction or damage the part.
Has the unit been connected to a secure earth connection?	It may cause electrical leakage.
Is the power cord specified?	It may cause electric malfunction or damage the part.
Has the inlet and outlet been covered?	It may cause insufficient refrigerating capacity.
Has the length of connection pipes and the refrigerant charge been record?	The refrigerating capacity is not accurate

This product must not be disposed together with the domestic waste.
This product has to be disposed at an authorized place for recycling of electrical and electronic appliances.

FAULT INDICATION

serial number	Meaning	LED (red)	LED (yellow)	LED (green)	LED (88)
1	Compressor high pressure protection unit stop	Blink once			E1
2	Indoor unit anti-freezing protection	Twice			E2
3	Low-pressure protection unit stop	Three times			E3
4	Air exhaust protection unit stop	Four times			E4
5	Over current protection unit stop	Five times			E5
6	Communication malfunction unit stop	Six times			E6
7	Unit modes conflict	Seven times			E7
8	Jumper malfunction	fifteen times			C5
9	9 Defrosting /Heating oil return		Blink once		H1
10	Compressor overload protection units top		Three times		H3
11	System Unit malfunction		Four times		H4
12	IPM modular protection unit stop		Five times		H5
13	PFC protection unit stop		Six times		HC
14	Compressor malfunction		Seven times		
15	Water spill protection		Eight times		
16	indoor ambient temp. sensor malfunction			Blink once	F1
17	indoor pipe temp. sensor malfunction			Twice	F2
18	Outdoor ambient temp. sensor malfunction			Three times	F3
19	Outdoor pipe temp. sensor malfunction			Four times	F4
20	Outdoor air exhaust temp. sensor malfunction			Five times	F5
21	E2 PROM Error			Eleven times	HA
22	Wire controller ambient temp. sensor malfunction			Blink once	

FAULT INDICATION

When the unit is running operated by wire controller

The Codes of Failure Definitions are as Follows:		
Fault code	Meaning	Wire controller
1	Compressor high pressure protection unit stop	E1
2	Indoor unit anti-freezing protection	E2
3	Low-pressure protection unit stop	E3
4	Air exhaust protection unit stop	E4
5	Over current protection unit stop	E5
6	Communication malfunction unit stop	E6
7	Unit modes conflict	E3
8	Jumper malfunction	E3
9	Defrosting /Heating oil return	defrost
10	Compressor overload protection unit stop	E5
11	System Unit malfunction	F2
12	IPM modular protection unit stop	E5
13	PFC protection unit stop	E5
14	Compressor malfunction	E9
15	Water spill protection	E9
16	Indoor ambient temp. sensor malfunction	F0
17	Indoor pipe temp. sensor malfunction	F1
18	Outdoor ambient temp. sensor malfunction	F3
19	Outdoor pipe temp. sensor malfunction	F2
20	Outdoor air exhaust temp. sensor malfunction	F4
21	E2 PROM Error	E3
22	Wire controller ambient temp. sensor malfunction	F5

YMGI GROUP
Innovative, Competitive, Efficient & Convenient

LIMITED PRODUCT WARRANTY -STANDARD POLICIES

YMGI Group (YMGI) products are designed and manufactured free from defects in workmanship and materials for normal use and maintenance. YMGI products are designed and manufactured to the qualities to keep installer(s) and user(s) from any trouble and to bring total comfort to unit(s) owner(s) and end user(s).

YMGI warrants its products against any unexpected issues occurred to product itself, though designed and manufactured and expected to work much longer than the warranted period, **as follows:**

1. Five-year compressor and sealed system
2. One-year other parts
3. Ground shipping only

Above warranties valid only if all the following are satisfied:

1. The unit was fully installed by currently licensed HVAC technician(s), from beginning to completion.
2. The unit is installed per NEC codes and local codes.
3. The unit is installed following installation instructions coming with YMGI products, and/or provided by YMGI Group.
4. The unit is fully checked and tested by installer(s) to make sure installed unit functions as designed.
5. Correct operation of the unit is explained clearly to the owner(s) by installer(s).
6. All fields are filled or checked, signed and dated by both installer(s) and owner(s) on the **LIMITED PRODUCT WARRANTY REGISTRATION CARD.**
7. **Warranty Registration Card** must be mailed, **along with an Original Copy of Full System Installation Service Charge Invoice from the Currently Validly Licensed HVAC Technician Company,** within 7 calendar days after the original installation is finished or your NEW home (unit is not checked or used yet) is closed, whichever comes later, by the owner(s) to Warranty Department, YMGI Group, POB 1559, O'Fallon, MO 63366, USA.

A full copy of **Warranty Registration** Card and **Original Copy of Full System Installation Service Charge Invoice** must be kept by owner(s) safely along with other documents that come with the product.

No warranty may be valid if any one of above 7 conditions is not fulfilled. Warranty begins on the date of the original installation or the date of NEW home (unit is not checked or used yet) is closed, whichever comes later.

As its only responsibility, and your only remedy, YMGI will furnish replacement part only (no labor), without charge for the PART(S) and Ground Shipping ONLY, to replace any part found to be defective due to manufacturer's workmanship or materials under normal use and maintenance. Any part replaced pursuant to this warranty is warranted only for the unexpired portion of the warranty term applying to the original part.

This warranty does not apply to nor cover any other cost associated with the service, repair or operation of the product or the like.

Defective product(s) or part(s) must be identified by your installer, along with **YMGI Group-approved Service Center(s) or Technical** Support., whichever is available in the area where unit is installed. Final decision is made by YMGI Group. An **"YMGI Group Customer Service/Technical Support Form Daily Log Sheet"** must be filed properly for effective communication and/or file management purpose.

Warranty policy herein DOESN'T cover:

1. Any damage or repairs to properties and injuries to person(s) as an incident or consequence of faulty or improper transportation, installation, operation, maintenance, or service that ISN'T physically performed by YMGI Group.
2. Any damage caused by frozen or broken water pipes in the event of equipment failure, any damage or injury as a result of floods, fires, winds, lightning, accidents, corrosive atmosphere or other conditions beyond the control of YMGI Group.
3. Any damage resulted from use of components or accessories not specified, supplied or designated by YMGI Group.
4. Any damage because of failure to start due to interruption and/or inadequate electrical service.
5. Any products sold or installed outside the United States or Canada.
6. Any labor charge from your technician company during any stage of the installation or service, for any reasons.

Any damage due to service performed by third parties, it is the product receivers(s) or owner(s)'s responsibility to claim such damage resulted from these activities to the responsible party:

1. Transportation, installation and operation.
2. Normal maintenance and service as described in the installation and operating manual, such as cleaning of the coils, filter, cleaning and/or replacement and lubrication.

YMGI keeps on product improvement and such improvement is purposed to further benefit installers, owners, users and others. Such improvement or changes, even without notice, including but not limited to specifications, functions, appearance, sizes, packages or others, of the products are YMGI's sole right(s). These improvement or changes will not invalidate the limited warranty stated herein.

For further information about this warranty, contact Warranty Department, YMGI Group either by faxing to **(866) 377-3355** or by mailing to **Warranty Department, YMGI Group, POB 1559, O'Fallon, MO 63366, USA**

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LIMITED PRODUCT WARRANTY REGISTRATION CARD

Product-Indoor Unit Model No.:_____ Outdoor Unit Model No.:_____

Product-Indoor Unit Serial No: _____ Outdoor Unit Serial No.: _____

Installed for Owner Name: **Date (mm/dd/yyyy):** _____

Street name and number, City, State, Zip code, Phone No. Fax No.

Purchased from Distributor Name:

Street name and number, City, State, Zip code, Phone No. Fax No.

☐ Indoor Unit ☐ Outdoor Unit ☐ Packaged Unit (Please Check Whatever Applicable)

Attached-Yes/No, An Original Copy of Installation Invoice from HVAC Contractor Company:

Installation Company Name: **Currently Licensed HVAC Technician License No.:**

Street name and number, City, State, Zip code, Phone No. Fax No.

Full Name of Installer Technician:_____ Cell Ph.: _____ Office Ph.: _____

YMGI Packing List No: _____ Purchasing Order No: _____

HVAC Technician Checklist (Must be Checked Fully, Right after Installation Completion):

- Are you a licensed contractor/technician? % of the installation was conducted by your company
- Did you read through the manual(s) prior to installation?
- Is unit unpacked and checked by the installer for obvious damage?
- Supply power V/Ph/Hz measured at circuit breaker to the outdoor unit: or Indoor unit:
- Incoming power V/Ph/Hz measured at terminal blocks of outdoor unit: or Indoor unit:
- Wire gauge and qty. between circuit breaker/disconnect switch to outdoor unit:
- Wire gauge and qty. between outdoor unit and indoor unit:
- What are installed before HVAC Licensed Technician took over?
- Is field wiring checked following national and local codes?
- Selected the correct electrical components (HVAC circuit breaker or fuse or disconnect switch for the power to the outdoor unit, connecting wires between circuit breaker/disconnect switch and outdoor unit, wires between outdoor and indoor units)?
- Is indoor coil and/or outdoor coil sealing checked and passed prior to installation?
- Is refrigerant piping length within stated ranges and free from kinks or too much bending?
- Indoor unit away from ceiling and outdoor unit away from the wall, bushes and other obstacles enough and safe clear distance, required in the manuals?
- Do air intake and discharge grills have enough open area free from any blocking?
- Indoor unit is installed on secured bracket, outdoor unit is placed on level platform, pad, or bracket securely?
- Taped the inter-connecting pipe ends before running through structures, keep from getting dust or other dirties into the pipes to damage the refrigeration system and void your factory warranty and cost you much more money?
- Is condensate drain pan or pipe checked all right free of any leakage?
- Vacuumed the connecting pipes for leakage check, before back-seating the stopping valves at outdoor condensing unit?
- Refrigerant suction pressure PSI: discharge pressure PSI: Outdoor Ambient Temperature F:
- Are both indoor fan wheels and outdoor unit fan blades checked for smooth rotation free of abnormal noise?
- Is outdoor unit compressor observed being started, running and stopped in right ways?
- Are all system/unit functions tested and checked to be surely all right, before you fill this card?
- Is system/unit tested to run for at least 30 minutes?
- Did you explain or teach owner(s) or end user(s) clearly the right operation or normal maintenance of the system/unit?
- Does your company provide and will follow installation/service warranty policy?

Print Name of Licensed HVAC Installer: Print Name of Unit Owner/User:

Signature of Licensed HVAC Installer: Signature of Unit Owner/User:

Date: Date:

To Validate the Factory Warranty, Customer Needs to Mail the Fully Filled and Signed Warranty Registration Card, along with an Original Copy of Full System Installation Service Charge Invoice from the Currently Validly Licensed HVAC Technician Company, to Warranty Dept., YMGI Group, POB 1559, O'Fallon, MO 63366 within 7 Calendar Days after Original Installation.

WARRANTY AND TECH. SUPPORT

YMGI warrants to the purchaser/owner(s) that YMGI products be free from defects in material and workmanship under the normal use and maintenance, with the standard Limited Product Warranty Policies that comes with the unit or sales package.

YMGI IS NOT RESPONSIBLE FOR

* Damage or repairs required as a consequence Customer do-it-yoursely(DIY) installation and/or any other faulty installation or improper application.
* Damage or repairs needed as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
* Damage as a result of floods, winds, fires, lightening, accidents, corrosive atmosphere, or other conditions beyond the control of YMGI.
* Any damages to person or property of whatever kind, direct or indirect, special or consequential, whether resulting from use or loss of use of the product.
* Failure to start due to voltage conditions, blown fuses, open circuit breakers, or other damages due to the inadequacy or interruption of electrical service.
* Parts not supplied or designated by YMGI.
* Products installed outside USA or Canada.
* Regular equipment maintenance or field service or field inspection.
* Any problems due to improper cooling and heating load calcuation of the room/building the air conditioner/heat pump system is to be installed. Equipment users can get the calculation schedule from your room/building architect or your installation or related service HVAC contractor, who should have knowledge and tools to do these calculation correctly.
* Any problems due to improper sizing and selecting air conditioner/heat pump system. These equipment sizing and selection work should be conducted by either your room/building architect or your installation or related service HVAC contractor, who should have knowledge and tools to do these calculation correctly, and get your approval, before your purchasing these air conditioner or heat pump equipment.
* Any problems due to improper installing of the air conditioner/heat pump system. Installation should be conducted by currently licensed HVAC technician, following manufacturer installation instructions, all governing safety codes, with care and professionalism.
* Any problems due to improper operation of the air conditioner/heat pump system. Users shall keep the manual and look up in the manuals for the correct understanding how the unit will work and how to operate the unit correctly.
* Any problems due to improper maintenance of the air conditioner/heat pump system. Like a car, regular maintenance or yearly checking is necessary for the unit to work properly for you, before the season comes. For example, air filter shall be checked for cleaness from time to time. Remote control batteries shall be checked for enough power, before judging the unit is not working...

CONTACT FOR FIELD SERVICE OR REPAIR

The following people, in a prioritized sequence, will take care of your request or issue:

1) The original installer; otherwise,
2) Your current service contractor; otherwise,
3) Authorized contractor in YMGI list that is close to you; otherwise,
4) Authorized Distributor in YMGI Distributor list; otherwise,
5) Contractor/Distributor you prefer who is close to you.

CONTACT FOR GENERAL TECHNICAL QUESTIONS OR SUPPORT, IN A SEQUENCE:

1) The original installer; otherwise,
2) The current service contractor; otherwise,

   The original licensed installer or current service contractor should be contacted first of all, since they installed the unit and/or know more details than anybody else.

   They will check the unit and find out the problems with the professional knowledge about HVAC and electric product installation by using special tools or instrument.

   They can contact YMGI technical support for technical help during unit installation or inspection.

   Product model and serial numbers needed, which can be found on unit nameplate sticker, so that our technician can quickly identify the unit, parts and wiring diagrams, among our many products and models.
3) The distributor; where the unit is purchased from otherwise,
4) YMGI Technical Support:
   Tel: (866) 833-3138*703 Email: techsp@ymgigroup.com

USER NOTES AND SERVICE LOG

USER NOTES

Put down whatever questions you have or problems you have seen as a unit history:

No.	Date	Questions or Problems	Remarks

SERVICE/MAINTENANCE LOG

Put down whatever questions you have or problems you have seen as a unit history:

No.	Date	Service/Maintenance Conducted	Person/Phone